

AMENDMENTS TO THE CLAIMS

Claims 1-3 (canceled)

Claim 4 (currently amended) ~~A method as recited in claim 1,~~ A method of finding at least one record in a database corresponding to a digital versatile disc, comprising:

receiving unique information about an unidentified digital versatile disc, including at least one of a title of the unidentified digital versatile disc, a volume name of the unidentified digital versatile disc, time stamp information for creation of a master of the unidentified digital versatile disc, a number of titles on the unidentified digital versatile disc, a number of chapters per title on the unidentified digital versatile disc, and a number of frames per chapter on the unidentified digital versatile disc;

identifying possibly matching records in a database of information about digital versatile discs using the unique information from the unidentified digital versatile disc; and

~~further comprising~~ storing first identifying keys for the information in the database, each first identifying key having been generated based on ~~total~~ the number of titles, the number of chapters per title and the number of frames per chapter, ~~and~~

wherein said identifying ~~comprises~~ comprises:

generating a first search key using the number of titles on the unidentified digital versatile disc, the number of chapters per title on the unidentified digital versatile disc, and the number of frames per chapter on the unidentified digital versatile disc; and

using the first search key and the first identifying keys to identify the possibly matching records.

Claim 5 (previously presented) A method as recited in claim 4, further comprising:

comparing the number of titles and the number of chapters per title of a corresponding digital versatile disc in each of the possibly matching records with the number of titles and the number of chapters per title of the unidentified digital versatile disc to find a best matching record and to determine whether the best matching record corresponds to the unidentified digital versatile disc; and

storing at least one of the number of titles and the number of chapters per title of the unidentified digital versatile disc in the best matching record if said comparing determines that the best matching record corresponds to the unidentified digital versatile disc and any differences exist between the number of titles and the number of chapters per title of the unidentified digital versatile disc and the best matching record.

Claim 6 (previously presented) A method as recited in claim 4, wherein each of the first search key and the first identifying keys is a 16 byte hash code generated by a message digest algorithm.

Claim 7 (currently amended) A method as recited in claim 4,

further comprising storing second identifying keys for the information in the database, each second identifying key having been generated by concatenating a predetermined number of characters of a volume name and hash coded time stamp information,~~and~~

wherein said identifying further ~~comprises~~comprises:

generating a second search key by concatenating a predetermined number of characters of the volume name of the unidentified digital versatile disc, and a hash code derived from the

time stamp information for creation of the master for the unidentified digital versatile disc;
and

using the second search key and the second identifying keys to identify the possibly matching records if no possibly matching records are found using the first search key and the first identifying keys.

Claim 8 (previously presented) A method as recited in claim 7, further comprising:

comparing the number of titles and the number of chapters per title of a corresponding digital versatile disc in each of the possibly matching records with the number of titles and the number of chapters per title of the unidentified digital versatile disc to find a best matching record and to determine whether the best matching record corresponds to the unidentified digital versatile disc; and

storing at least one of the number of titles and the number of chapters per title of the unidentified digital versatile disc in the best matching record if said comparing determines that the best matching record corresponds to the unidentified digital versatile disc and any differences exist between the number of titles and the number of chapters per title of the unidentified digital versatile disc and the best matching record.

Claim 9 (currently amended) A method as recited in claim 7,

further comprising storing third identifying keys for the information in the database, each third identifying key having been generated based on number of chapters and number of frames per chapter for a title having a largest number of chapters on a corresponding digital versatile disc, ~~and~~

wherein said identifying further ~~comprises~~comprises:

generating a third search key using the number of chapters and the number of frames per chapter in a title having a largest number of chapters on the unidentified digital versatile disc; and

using the third search key and the third identifying keys to identify the possibly matching records if no possibly matching records are found using the first and second search keys and the first and second identifying keys.

Claim 10 (previously presented) A method as recited in claim 9, further comprising:

comparing the number of titles and the number of chapters per title of a corresponding digital versatile disc in each of the possibly matching records with the number of titles and the number of chapters per title of the unidentified digital versatile disc to find a best matching record and to determine whether the best matching record corresponds to the unidentified digital versatile disc; and

storing at least one of the number of titles and the number of chapters per title of the unidentified digital versatile disc in the best matching record if said comparing determines that the best matching record corresponds to the unidentified digital versatile disc and any differences exist between the number of titles and the number of chapters per title of the unidentified digital versatile disc and the best matching record.

Claim 11 (previously presented) A method as recited in claim 9, wherein each of the first and third search keys and the first and third identifying keys is a 16 byte hash code generated by a message digest algorithm.

Claim 12 (currently amended) A method as recited in claim 9,

further comprising storing fourth identifying keys for the information in the database, each fourth identifying key having been generated based on the: number of chapters and the number of frames per chapter for the title having the largest number of chapters on the corresponding digital versatile disc and using an approximation algorithm that identifies the information with less precision than the third identifying keys,~~and~~

wherein said identifying further ~~comprises~~ comprises:

generating a fourth search key based on the number of chapters and the number of frames per chapter in a title having a largest number of chapters on the unidentified digital versatile disc and using the approximation algorithm; and

using the fourth search key and the fourth identifying keys to identify the possibly matching records if no possibly matching records are found using the first, second and third search keys and the first, second and third identifying keys.

Claim 13 (previously presented) A method as recited in claim 12, further comprising selecting a best matching record from among a plurality of possibly matching records obtained by said identifying, based on a closest match between the number of frames per chapter of the unidentified digital versatile disc and the possibly matching records.

Claim 14 (previously presented) A method as recited in claim 13, further comprising:
comparing the number of titles and the number of chapters per title of the corresponding digital versatile disc for the best matching record with the number of titles and the number of chapters

per title of the unidentified digital versatile disc to determine whether the best matching record corresponds to the unidentified digital versatile disc; and

storing at least one of the number of titles and the number of chapters per title of the unidentified digital versatile disc in the best matching record if said comparing determines that the best matching record corresponds to the unidentified digital versatile disc and any differences exist between the number of titles and the number of chapters per title of the unidentified digital versatile disc and the best matching record.

Claim 15 (previously presented) A method as recited in claim 12, wherein said identifying further comprises comparing the title of the unidentified digital versatile disc with titles stored in the information in the database if no possibly matching records are found using the first through fourth search keys and the first through fourth identifying keys.

Claims 16-24 (canceled)